

Fenix Bike Light BT20

Features:

Utilizes Cree XM-L (T6) neutral white LED, max 750 lumens output

Powered by two 18650 rechargeable Li-ion batteries or four CR123A Lithium batteries

Uses aspherical reflector with a wide beam angle

Anti-glare lens design produces DUAL DISTANCE BEAM illumination

4 brightness levels and one flashing mode

Digitally regulated output - maintains constant brightness

Low power warning indicator on the headlamp

Quick to attach and detach using O-ring mounting straps sized for 20mm-35mm handlebars

Able to adjust the direction of the headlamp freely

Made of aluminum alloy and quality plastic

Parts Included

1. BT20 Headlamp
2. BA4C Battery Case
3. Battery Case Protective Sleeve with frame attachment straps
4. Six O-ring mounting straps (two large, two medium and two small)

Note: the large O-ring mounting straps are sized for 30mm-35mm handlebar, while the medium ones for 24mm-30mm handlebars and the small ones for 20mm-24mm handlebars (the above sizes are only for your reference) .

5. Helmet Mount
6. Extension Cable
7. User Manual, Warranty Card

Battery Specifications

Type	Dimensions	Nominal Voltage	Usability	
Fenix ARB-L2	18650	3.7V	Recommended	√
Non-rechargeable Battery (Lithium)	CR123A	3V	Recommended	√
Rechargeable Battery (Li-ion)	16340	3.7V	Banned	×
Rechargeable Battery (Li-ion)	18650	3.7V	Cautious*	!
Rechargeable Battery (LiFePO ₄)	16340	3.2V	Usable	√
Rechargeable Battery (LiFePO ₄)	18650	3.2V	Banned	×

Note: 18650 Li-ion batteries are powerful cells designed for commercial applications and must be treated with caution and handled with care. Quality batteries with circuit protection will reduce the potential for combustion or explosion but cell damage or short circuiting are potential risks the user assumes. We recommend using Fenix ARB-L2 18650 batteries.

Technical Parameters

	General Mode				Flashing Mode
	Turbo	High	Mid	Low	
Output	750lumens	450lumens	300lumens	100lumens	300lumens
Runtime	1h 50min	3h 45min	6h 20min	19h 30min	14h
Usage Scenario	Mountain biking	Cross country	Urban utility	Commuting	Warning
Max Distance	156m				
Water Resistant	IPX-6				
Weight	121g (excluding batteries and accessories)				
Max Input Voltage	12.8V				
Dimensions	Headlamp: 67.8mm (Length)*42.9mm (Width)*56.6mm (Height) Battery Case: 100mm (Length)*27.5mm (Width)*56mm (Height)				

Notice: The above-mentioned parameters (lab tested by Fenix using ARB-L2 18650 batteries) are approximate and may vary between the bike lights, batteries and environments.

Operation Instruction

1. To turn the light on/off, press and hold the headlamp power button for 0.8 seconds.
2. Cycle through the four brightness levels in the order of Turbo →Low → Medium →High by a single press on the headlamp power button;
3. To activate the flashing mode, double press the headlamp power button; a single press on the headlamp button will return it to general mode.

Notice:

1. As with any performance light, the BT20 builds up heat when run in the turbo brightness level for an extended period. Intelligent circuitry in the BT20 downshift the light to guard against overheating.
2. The BT20 retains the last brightness level used (not flashing mode) even after batteries are changed.

Low Power Warning Function

The bike light has a low power warning function. The power indicator on the headlamp will turn from green to red as battery power drops. In this case, the battery should be replaced, or the light may turn off suddenly if the battery runs out completely. To ensure normal use, the light will lower the brightness level rather than turn off automatically so that the light can be used for a longer time.

Notice:

1. When using four CR123A batteries, the low-power warning function will not work normally.
2. When using four 16340 LiFePO₄ batteries, the low-power warning function will not work normally. So we suggest replacing the batteries when the light can not transfer into turbo brightness levels, or it will harm the batteries or shorten the lifespan of the batteries.

Mounting Instructions

Mounting the Headlamp on a Handlebar



1. Twist the headlamp to keep the light holder perpendicular to the headlamp.
2. Choose one of the three “O-ring” style mounting straps that fit the handlebar diameter and place the side without the tab into the light holder with Fenix logo.
3. Place the headlamp /mounting assembly on the handlebar (with the logo side at the front), pull /stretch the tab side of the mounting strap under the handlebar, towards the back and loop it over and into the back slot.
4. Depending on your lighting needs, adjust the direction of the headlamp before testing the BT20’s power and functions.

Note: Tighten or loosen the headlamp-to-mount assembly by turning the Phillips screw under the lamp holder.

Mounting the Headlamp on a Helmet



1. Twist the headlamp to keep the light holder perpendicular to the headlamp.
2. Choose a medium-sized O-ring mounting strap and place the side without the tab into the light holder with Fenix logo.
3. Place the headlamp /mounting assembly on the helmet mount, pull /stretch the tab side of the mounting strap under the helmet mount, towards the back and loop it over and into the back slot.

4. Position the helmet mount as close to the centerline of the helmet as possible, and feed each strap into and out of two helmet vents;
5. Circle each strap back to the upper edge of the corresponding clamp.
6. Fasten the straps by inserting them to the clamps.

Mounting the Battery Case

1. Turn the knob on the top of the battery case in the direction of the arrow and open the battery case.
2. Insert the batteries into the battery case observing the correct polarity as the yellow mark indicates, and turn the knob to lock the battery case.
3. Put the battery case into the protective sleeve of the battery case.
4. Circle each Velcro strap of the battery case protective sleeve back to the upper edge of the bike frame; thread the Velcro straps through two slots on the bottom of the battery case protective sleeve, and secure the battery case protective sleeve to the bike frame.
5. Plug the cable from the headlamp into the connector of the battery case. The headlamp and the battery case will be connected when a noticeable “click” is heard.
6. Unplug the cable of the headlamp from the connector of the battery case by twisting the connectors and pulling them outward.

Safety Tips

Important Notice:

1. BT20 is a high-intensity lighting device capable of causing eye damage. Avoid shining the light directly into the eyes.
2. Avoid touching the metal parts of the BT20 as LED lights accumulate heat when powered up.
3. Waterproof to IPX-6, BT20 can be used in humid conditions but is not suited for water immersion.
4. Please keep it out of the reach of children.

Night Riding Tips:

1. Never ride alone;
2. Always let someone know where you are
3. Wear a helmet and reflective clothing
4. Carry an auxiliary light and emergency supplies
5. Make sure the headlamp, bike mount and battery case are securely fastened

Daily Maintenance

1. Carefully unplug the cable of the headlamp from the connector of the battery case by twisting the connectors and pulling them outward to avoid damage.
2. When not in use, disconnect the cable from the headlamp from the battery connector and take out the batteries to avoid damage from battery leakage and the potential for battery explosion.
3. When storing for an extended period of time, dismantle the light, battery case and the battery case protective sleeve.
4. Please don't disassemble the sealed parts, as doing so can cause damage to the BT20 and will void the warranty.

Product Warranty

We will replace products afflicted with manufacturing defects within 15 days of purchase and repair a light free of charge within 24 months of purchase if problems develop with normal use; if repair is required after 24 months from the date of purchase, we will charge for parts. The total repair fee is dictated by the cost of the replaced materials.

Product Registration

We kindly suggest that you register your product on the official website of Fenixlight Limited (www.fenixlight.com). You'll receive an extra six months of warranty coverage once you have successfully registered. By participating in an optional customer survey, you are entered in a drawing for free Fenix products.

FENIXLIGHT LIMITED

Tel: +86-755-29631163/83/93 Fax: +86-755-29631181

E-mail: info@fenixlight.com

www.fenixlight.com

Address: 8/F, 2nd Building, DongFangMing
Industrial Center, 33rd District, Bao'an,
Shenzhen 518133, China